NMD 50 TO SDD CONVERSION

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INTRODUCTION

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PURPOSE

This guide covers the steps for converting NMD 50 dual dispenser units to SDD single dispenser units on RL 5000 and RL 2000 cabinets. Instructions are separated into three sections that will cover steps related to varying cabinet styles and configurations.

SCOPE

This procedure applies to all service personnel involved in the process of maintaining, converting, or upgrading hardware and software on Triton ATMs nationwide and abroad.

APPLICATION

This conversion covers all Triton RL 5000 and RL 2000 ATM units currently utilizing NMD double dispenser units. Follow instructions to determine which step applies to a particular cabinet style. Parts ordered will conform to specific unit identified at time of order.

REQUIRED PARTS AND TOOLS

TOOLS REQUIRED	#2 Phillips screwdriver or hex driver
KIT 06200-00234	Cabinet 03015-00253- NMD to SDD Conversion Kit
KIT 06200-00233	Cabinets 03015-00052 & 03015-00167- NMD to SDD Conversion Kit
KIT 06200-00232	Cabinet 09700-00000 - NMD to SDD Conversion Kit

At left: *The NMD 50 with dual cassettes.* **At right:** *RL unit converted to incorporate the SDD dispenser. Some SDDs attach to fixed-base units, while others are mounted on sliding decks.* **Below:** *Metal SDD cash cassette fits all SDD units.*

NMD Removal

WARNING: Abnormal shutdowns can cause internal file system corruption if the power switch is turned off while the system is performing a write operation. Follow instructions below to properly shut down unit before beginning upgrade.

Before proceeding, follow these steps to remove power from the ATM: Enter **Management Functions > System Parameters > Shut Down the Terminal.** When prompted, unlock/ open the ATM control panel and turn power **OFF** (0) red switch on the ATMs power supply.

WARNING: Before opening cabinet and removing NMD, make sure unit is secured firmly to flooring or braced in a way that will prevent tipping. Fully extending dispenser unit may cause an imbalance.

With only minor variations, removing the NMD unit is standard for all cabinets. Guidelines for replacing the NMD with the SDD unit may vary depending on cabinet style, rail system, etc. Later steps explain installation of the SDD unit into different cabinets.

Figure 1
Power cable connection.

1. Once power is removed from unit and cabinet is secure, slide dispenser compartment forward to gain access to NMD, side rails, cassettes and wiring.

2. Remove cassettes from dispenser unit and set aside. SDD units will require a different style cassette that will come with conversion kit.

Figure 2
Data/ground connections.

3. Disconnect all wiring leading to NMD unit, **(see figures 1, 2)** including power, data and ground cables. Make note of wire routing and connections and keep all cabling clear of dispenser and other moving parts during conversion.

4. With deck still fully extended, press in on release pins on both sides of rails and pull dispenser unit forward. On some NMDs, raising or lowering small levers on both sides of rails allow release of unit **(see figure 3, 4)**. Dispenser will slide forward out of cabinet and off rails. Set unit aside.

Figure 3
Slide rail, left side, push lever up to remove

6. Use a Phillips screwdriver to remove the rear screws securing the slide rails to the mounting brackets along both sides of the inner cabinet. Align two oblong openings in both rails to allow removal of remaining screws. Repeat on opposite side. Remove slide rails, brackets and mounting tray from interior of cabinet and prepare to install hardware to support SDD.

Figure 4
Slide rail, right side, push lever down to remove

SDD Installation (Section 1)

This section contains information necessary for the installation of the SDD single dispenser unit on RL 2000 ATMs. Installation instructions vary, depending on cabinet configuration. Determine the section necessary to conform to a specific unit and configuration. Not all sections apply to all units. To determine cabinet model number, locate sticker on inside left panel of cabinet.

Required Parts and Tools

TOOLS REQUIRED	#2 Phillips screwdriver or hex driver
KIT 06200-00234	Cabinet 03015-00253- NMD to SDD Conversion Kit

Items in kit	Description	Qty
02301-00024	Nut|#8-32|Hex Nut|Ext. Tooth Washer ROHS	6
03011-01552	Stationary Tray, SDD ROHS	1
02301-00026	Nut|1/4-20|||Wing Nut ROHS	2
09120-07017	SDD Data Cable ROHS	1
03072-00038	Cable Clip|3/4" Round, Screw-In|Quick Release| ROHS	1
09120-07011	Cable|DC Power|SDD ROHS	1

RL 2000

The RL 2000 uses a stationary dispenser deck to support SDD unit.

Converting Cabinet 03015-00253 (RL 2000)

1. Before installation, ensure all wiring is clear of sliding rails, doors and moveable parts. Keep wiring and harnesses in rear area of cabinet during conversion.

2. After NMD removal, attach stationary deck to inside of cabinet by sliding slots in deck down onto six (6) threaded pins on cabinet sides. Secure deck to inner cabinet with six (6) nuts provided in kit.

3. Before attaching dispenser to deck, place unit on top of deck and secure all wiring to rear of unit. Attach data, power and communication cables to control board and use clips provided in kit to secure wiring. Check all other wiring to make sure connections are snug and wiring is clear of moveable parts.

4. The SDD attaches to stationary tray by sliding lower plate of unit into slot at rear of deck. Lower unit down onto two studs at front of deck and tighten with two wing nuts to secure unit. Make sure wiring is clear of underside of deck before attaching.

5. Once mechanism is secure on deck and inside cabinet, load cassette and currency, restore power to unit and test functionality.

SDD Installation (Section 2)

This section contains information necessary for the installation of the SDD single dispenser unit on RL 5000 ATMs. Installation instructions vary, depending on cabinet configuration. Determine the section necessary to conform to a specific unit and configuration. Not all sections apply to all units.

Required Parts and Tools

TOOLS REQUIRED	#2 Phillips screwdriver or hex driver
KIT 06200-00233	Cabinets 03015-00052 and 03015-00167- NMD to SDD Conversion Kit

Items in kit	Description	Qty
03011-00658	Bracket, Slide Mount, Left ROHS	1
03011-01604	Bracket, Slide Mount, Right ROHS	1
03011-00614	Bill Tray, Top ROHS	1
03011-00615	Bill Tray, Bottom ROHS	1
09120-07017	SDD Data Cable ROHS	1
03072-00038	Cable Clip|3/4" Round, Screw-In|Quick Release| ROHS	1
02054-00201	Screw|#8-32|5/8 Inch|||Truss Phillips Head||	16
09120-00311	Cable|Communications|Main Board to EJ ROHS	1
09600-00027	Cable|EJ to SDD ROHS	1
03011-01591	Dispenser Tray, SDD ROHS	1
03082-00027	Mech-00, 18 Inches Slides ROHS	2
09120-07011	Cable|DC Power|SDD ROHS	1

Converting Cabinets 03015-00052/03015-00167 (RL 5000)

1. Before installation, make sure all wiring is clear and out of the way of sliding rails, doors and any other moveable parts. Keep wiring and harnesses in rear area of cabinet during conversion and try not to place tension on cabling.

2. Attach top and bottom bill trays to door of unit using four nuts and washers, **(see figure 5)**. Trays fit together at notches in edges then mount to inner door.

3. Open cabinet door fully and attach left and right slide mounts to inner wall of cabinet using #8 Phillips head screws supplied in kit.

4. Secure deck and slide rails to side mounts with Phillips screws. Attach rear first, then slide rails into unit until oblong holes in slides align with holes in mounts. Secure front of slide rails.
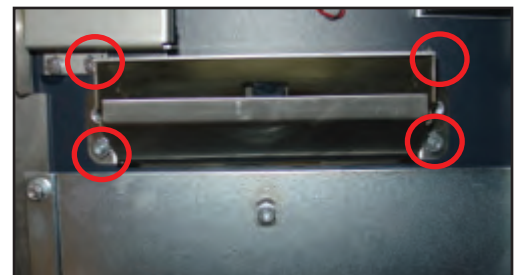

Figure 5
Attach bill tray inside door of cabinet

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5. Before securing SDD to deck, rest unit on deck and attach power cable, communication cable and data cable to appropriate connections at rear of unit**.** Make sure all wiring is clear of deck and in rear of cabinet before mounting SDD to deck. Attach deck to slides on both sides using six (6) hex nuts provided, **(see figure 7).**

6. Slide rear of SDD into flange at rear of deck. Lower front of SDD onto two threaded studs and secure with wing nuts, **(see figure 6).**
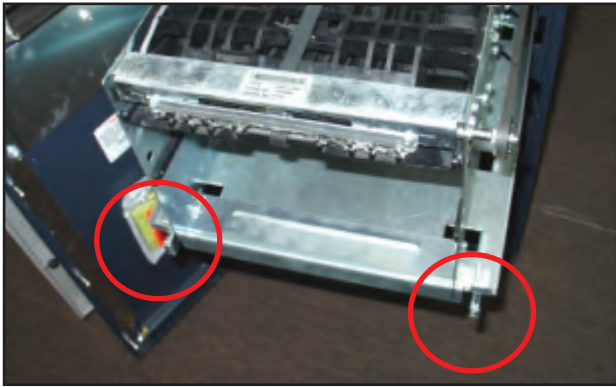

Figure 6
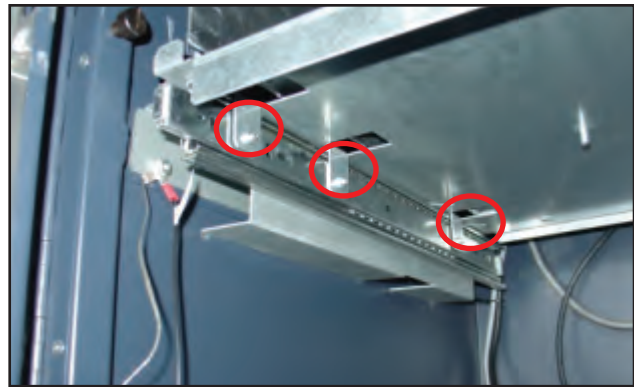*Secure front of unit to deck with wing nuts on studs on both sides of cabinet.*

Figure 7
Underside of dispenser deck attaches to slide rails on both sides at points shown

SDD Installation (Section 3)

This section contains information necessary for the installation of the stationary SDD single dispenser unit on RL 5000 ATM units. Installation instructions vary, depending on cabinet configuration. Determine the section necessary to conform to a specific unit and configuration. Not all sections apply to all units. To determine cabinet model number, locate sticker on inside left or right panel of cabinet.

Required Parts and Tools

TOOLS REQUIRED	#2 Phillips screwdriver or hex driver
KIT 06200-00232	Cabinet 09700-00000 - NMD to SDD Conversion Kit

Items in kit	Description	Qty
03011-00842	Bill Tray, Top	
03011-00382	Bill Tray, Bottom	
03011-01591	Dispenser Tray, SDD ROHS	
09600-00027	Cable|EJ to SDD ROHS	
03082-00027	Mech-00, 18-inch Slides ROHS	
09120-07011	Cable|DC Power|SDD ROHS	

Converting Cabinet 09700-00000 (RL 5000)

1. Before installation, make sure all wiring is clear and out of way of sliding rails, doors and other moveable parts. Keep wiring and harnesses in rear area of cabinet during conversion.

2. Open door fully. Secure top and bottom bill tray pieces to inside of cabinet door with four (4) nuts and washers, **(see figure 5)**. Trays fit together at notches in edges then mount to inner door.

3. To secure deck, lower deck plate onto pins located on either side of inner cabinet. Secure with hex nuts.

4. With deck secure, rest SDD unit on top, but do not secure dispenser to deck at this time.

5. Secure all wiring to rear of dispenser unit. Locate connections for power cable, communications cable and data cable and connect firmly to unit in specified locations at rear of SDD.

6. Check all other cable connections to make sure they are snug and tight.

7. Slide dispenser toward rear of deck and allow base to slip beneath flanges on rear of deck. Lower front of SDD down onto threaded studs at front of deck. Secure SDD with two (2) wing nuts.

8. Load cassette with bills and place in dispenser.

9. Return power to unit and test functionality.

RL 5000

RL 5000 units convert to a fixed deck that supports SDD. Locate model number on inner wall of cabinet.

At left: *NMD unit in RL 5000 before conversion to SDD.* **At right:** *RL 5000 cabinet converted to incorporate SDD dispenser. Conversion will change dispensing system from a dual cassette unit to a single dispenser. Mounting methods vary, depending on cabinet model. Cabinet model can be identified by sticker located on inside right or left of cabinet.*